



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Sorrells *et al.*

Appl. No.: 09/632,857

Filed: August 4, 2000

For: **Wireless Local Area Network
(WLAN) Technology And
Applications Including
Techniques Of Universal
Frequency Translation**

Confirmation No.: 2270

Art Unit: 2664

Examiner: Shah, Chirag G.

Atty. Docket: 1744.0630002

Third Supplemental Information Disclosure Statement

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Third Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Second Supplemental Information Disclosure Statement filed on January 23, 2004 in connection with the above-captioned application.

Applicants have listed publication dates on the attached Form PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may

not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

Applicants provide the following comments regarding the documents:

Documents AL23, AC57, AD57, AE57, AO59, and AB62 were cited in an Office Action in related U.S. Patent Application No. 09/669,634, filed September 26, 2000, entitled "High Frequency Translator and Method of High Frequency Translation," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 6,049,706; 6,421,534; and 6,560,301, which have already been cited in the present application.

Documents AI56, AA57, AF57, AG57, AG64, and AH64 are co-owned patents which are directed to related subject matter.

Documents AI56, AA57, AF57, AG57, and AE60 were cited in a Notice of Allowance in related U.S. Patent Application No. 09/838,387, filed April 20, 2001, entitled "Method and System for Down-Converting and Up-Converting an Electromagnetic Signal, and Transforms for Same," directed to related subject matter. Also cited in said Notice of Allowance were U.S. Patent Nos. 5,937,013; 6,061,551; and 6,647,250 which have already been cited in the present application.

Documents AA57, AF57, AD62, and AE62 were cited in a Notice of Allowance in related U.S. Patent Application No. 09/525,615, filed March 14, 2000, entitled "Method, System, and Apparatus for Balanced Frequency Up-conversion of a Baseband Signal and 4-Phase Receiver and Transceiver Embodiments," directed to related subject matter. Also cited in said Notice of Allowance were U.S. Patent Nos. 6,091,940 and 6,370,371, which have already been cited in the present application.

Document AB57 was cited in an Office Action in related U.S. Patent Application No. 09/567,977, filed May 10, 2000, entitled, "Optical Down-converter Using Universal Frequency Translation Technology," directed to related subject matter.

Documents AH57, AI57, AA58, and AB58 were cited in an Office Action in related U.S. Patent Application No. 09/567,978, filed May 10, 2000, entitled "Carrier and Clock Recovery Using Universal Frequency Translation," directed to related subject matter. Also cited in said Office Action was U.S. Patent No. 5,937,013, which has already been cited in the present application.

Documents AC58 and AD58 were cited in a Notice of Allowance in related U.S. Patent Application No. 10/330,219, filed December 30, 2002, entitled "Methods and Systems for Down-Converting Electromagnetic Signals, and Applications Thereof," directed to related subject matter.

Documents AE58-AI58 and AA59-AG59 were cited in an Office Action in related U.S. Patent Application No. 09/566,188, filed May 5, 2000, entitled "Integrated Frequency Translation and Selectivity with Gain Control Functionality, and Applications Thereof," directed to related subject matter.

Documents AH59 and AI59 were cited in an Office Action in related U.S. Patent Application No. 09/632,856, filed August 4, 2000, entitled "Wireless Local Area Network (WLAN) Using Universal Frequency Translation Technology Including Multi-Phase Embodiments and Circuit Implementation," directed to related subject matter.

Documents AP59 and AA64 were cited in an Office Action in related U.S. Patent Application No. 09/567,977, filed May 10, 2000, entitled "Optical Down-converter Using Universal Frequency Translation," directed to related subject matter. Also cited in

said Office Action were Dines, J.A.B., "Smart Pixel Optoelectronic Receiver Based on a Charge Sensitive Amplifier Design," *IEEE Journal of Selected Topics in Quantum Electronics*, IEEE, Vol. 2, No. 1, pp. 117-120 (April 1996); Simoni, A. *et al.*, "A Digital Camera for Machine Vision," *20th International Conference on Industrial Electronics, Control and Instrumentation*, IEEE, pp. 879-883 (September 1994); and Stewart, R.W. and Pfann, E., "Oversampling and sigma-delta strategies for data conversion," *Electronics & Communication Engineering Journal*, IEEE, pp. 37-47 (February 1998), and U.S. Patent No. 6,608,647, which have already been cited in the present application.

Documents AA60-AC60 were cited in an Office Action in related U.S. Patent Application No. 09/569,044, filed May 10, 2000, entitled "Universal Platform Module and Methods and Apparatuses Relating Thereto Enabled by Universal Frequency Translation Technology," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 2,057,613; 2,241,078; 2,283,575; 2,358,152; 2,410,350; 2,451,430; 2,472,798; 4,653,117; and 5,241,561, which have already been cited in the present application.

Document AD60 was cited in an Office Action in related U.S. Patent Application No. 10/289,377, filed November 7, 2002, entitled "Method and Apparatus for Reducing DC Offsets in a Communication System," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,471,665; 5,793,817; and 5,898,912, which have already been cited in the present application.

Documents AF60 and AG60 were cited in an Office Action in related U.S. Patent Application No. 09/525,185, filed March 14, 2000, entitled "Spread Spectrum Applications of Universal Frequency Translation," directed to related subject matter.

Also cited in said Office Action were U.S. Patent Nos. 5,339,459; 5,369,789; and 5,937,013, which have already been cited in the present application.

Documents AH60, AI60, AA61, and AB61 were cited in an Office Action in related U.S. Patent Application No. 09/569,045, filed May 10, 2000, entitled "Methods and Apparatuses Relating to a Universal Platform Module and Enabled by Universal Frequency Translation Technology," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,339,459 and 5,557,641, which have already been cited in the present application.

Documents AC61-AE61 were cited in an Office Action in related U.S. Patent Application No. 09/590,955, filed June 9, 2000, entitled "Phase Shifting Applications of Universal Frequency Translation," directed to related subject matter. Also cited in said Office Action was U.S. Patent No. 5,339,459, which has already been cited in the present application.

Documents AF61-AH61 were cited in an Office Action in related U.S. Patent Application No. 09/550,642, filed April 14, 2000, entitled "Method and System for Down-Converting an Electromagnetic Signal, and Transforms for Same," directed to related subject matter.

Documents AI61 and AA62 were cited in an Office Action in related U.S. Patent Application No. 10/317,165, filed December 12, 2002, entitled "Method and Apparatus for Reducing DC Offsets in Communication Systems Using Universal Frequency Translation Technology," directed to related subject matter.

Document AC62 was cited in an Office Action in related U.S. Patent Application No. 09/476,093, filed January 3, 2000, entitled "Communication System Method With

Multi-Mode and Multi-Band Functionality and Embodiments Thereof, Such as the Family Radio Service," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,790,587 and 5,937,013, which have already been cited in the present application.

Documents AF62-AH62 were cited in an Written Opinion in related PCT Application No. PCT/US03/16403, filed May 27, 2003, entitled "Method and Apparatus for DC Offset Removal in a Radio Frequency Communication Channel," directed to related subject matter. Also cited in said Written Opinion was U.S. Patent No. 5,483,600, which has already been cited in the present application.

Documents AF62-AI62 and AA63-AE63 were cited in an Office Action in related U.S. Patent Application No. 10/290,323, filed November 8, 2002, entitled "Method and Apparatus for DC Offset Removal in a Radio Frequency Communication Channel," directed to related subject matter. Also cited in said Office Action was U.S. Patent No. 5,483,600, which has already been cited in the present application.

Documents AF63-AI63 were cited in an Office Action in related U.S. Patent Application No. 09/986,764, filed November 9, 2001, entitled "Method and Apparatus for Reducing DC Offsets in a Communication System," directed to related subject matter.

Documents AB64-AE64 were cited in a Notice of Allowance in related U.S. Patent Application No. 09/987,193, filed November 13, 2001, entitled "Method and Apparatus for a Parallel Correlator and Applications Thereof," directed to related subject matter.

Document AF64 was cited in an Office Action in related U.S. Patent Application No. 09/632,857, filed August 4, 2000, entitled "Wireless Local Area Network (WLAN) Technology and Applications Including Techniques of Universal Frequency Translation," directed to related subject matter.

Documents AI64 and AA65 were cited in an Office Action in related U.S. Patent Application No. 10/289,377, filed November 7, 2002, entitled "Method and Apparatus for Reducing DC Offsets In A Communication System," directed to related subject matter.

It is noted that some of these documents could be classified in more than one of the above categories.

This statement should not be construed as a representation that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below.

- ☐ 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this information disclosure statement.
- ☐ 2. Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed concurrently with the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.
- ☒ 3. Filing under 37 C.F.R. § 1.97(c). This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final

Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application.

- ☐ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
 - ☐ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
 - ☒ c. Attached is our PTO-2038 Credit Card Payment Form in the amount of \$180.00 in payment of the fee under 37 C.F.R. § 1.17(p).
- ☐ 4. Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Enclosed find our PTO-2038 Credit Card Payment Form in the amount of \$_____ in payment of the fee under 37 C.F.R. § 1.17(p); in addition:
- ☐ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
 - ☐ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was

known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

- ☐ 5. The document(s) was/were cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the foreign office is provided in satisfaction of the requirement for a concise explanation of relevance. 1138 OG 37, 38.

- ☒ 6. A concise explanation of the relevance of non-English language document AL23 appears below:

Document AL23 (DE 196 48 915 A1) appears to describe a process of frequency conversion. An English-language translation of document AL23 is enclosed as document AO59.

- ☒ 7. Copies of documents AL23, AO59, and AP59 are submitted. However, in accordance with 37 C.F.R. § 1.98(a)(2), no copies of U.S patents and patent application publications cited on the attached Form PTO-1449 are submitted.

- ☐ 8. Copies of the documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. _____, filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

- ☐ 9. It is expected that the examiner will review the prosecution and cited art in the parent application no. _____, filed _____, and indicate in the next communication from the office that the art cited in the earlier prosecution histories have been reviewed in connection with the present application.

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

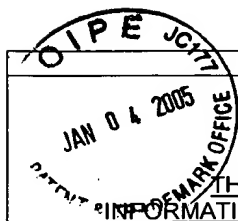
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

A handwritten signature in black ink, appearing to read "Jeffrey S. Weaver", is written over a horizontal line.

Jeffrey S. Weaver
Attorney for Applicants
Registration No. 45,608

Date: 12-6-04

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
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FORM PTO-1449

THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0630002

APPLICATION NO.
09/632,857

INVENTORS
SORRELLS *et al.*

FILING DATE
August 4, 2000

ART UNIT
2664

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI56	6,687,493 B1	02/2004	Sorrells <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL23	DE 196 48 915 A1	06/1998	DE			Yes (Doc. AO59)
	AM						Yes No

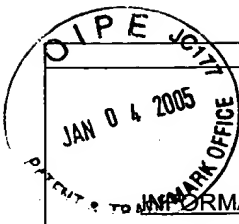
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AN		
	AO	<u>59</u>	English Translation of German Patent Publication No. DE 196 48 915 A1, 10 pages.
	AP	<u>59</u>	Deboo, Gordon J., <i>Integrated Circuits and Semiconductor Devices</i> , 2 nd Edition, McGraw-Hill, Inc., pp. 41-45 (1977).
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EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA57	6,694,128 B1	02/2004	Sorrells <i>et al.</i>			
	AB57	6,031,217	02/2000	Aswell <i>et al.</i>			
	AC57	5,955,992	09/1999	Shattil			
	AD57	5,999,561	12/1999	Naden <i>et al.</i>			
	AE57	6,686,879 B2	02/2004	Shattil			
	AF57	6,704,549 B1	03/2004	Sorrells <i>et al.</i>			
	AG57	6,704,558 B1	03/2004	Sorrells <i>et al.</i>			
	AH57	5,490,176	02/1996	Peltier			
	AI57	5,970,053	10/1999	Schick <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AK						Yes No
	AL						Yes No
	AM						Yes No

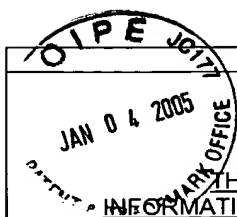
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	AA58	6,078,630	06/2000	Prasanna			
	AB58	6,600,911 B1	07/2003	Morishige <i>et al.</i>			
	AC58	5,179,731	01/1993	Tränkle <i>et al.</i>			
	AD58	5,589,793	12/1996	Kassapian			
	AE58	4,510,467	04/1985	Chang <i>et al.</i>			
	AF58	4,772,853	09/1988	Hart			
	AG58	4,972,436	11/1990	Halim <i>et al.</i>			
	AH58	5,012,245	04/1991	Scott <i>et al.</i>			
	AI58	5,422,909	06/1995	Love <i>et al.</i>			

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	AL						Yes No
	AM						Yes No

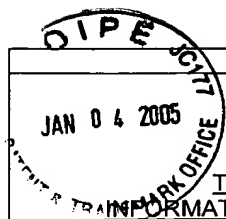
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	AA59	5,440,311	08/1995	Gallagher <i>et al.</i>			
	AB59	5,926,513	07/1999	Suominen <i>et al.</i>			
	AC59	5,995,030	11/1999	Cabler			
	AD59	6,047,026	04/2000	Chao <i>et al.</i>			
	AE59	6,049,573	04/2000	Song			
	AF59	6,076,015	06/2000	Hartley <i>et al.</i>			
	AG59	6,144,331	11/2000	Jiang			
	AH59	6,018,553	01/2000	Sanielevici <i>et al.</i>			
	AI59	6,317,589 B1	11/2001	Nash			

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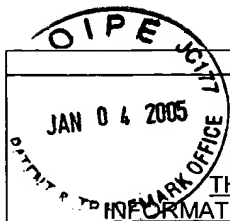
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	AA60	5,058,107	10/1991	Stone <i>et al.</i>			
	AB60	5,757,858	05/1998	Black <i>et al.</i>			
	AC60	6,531,979 B1	03/2003	Hynes			
	AD60	6,018,262	01/2000	Noro <i>et al.</i>			
	AE60	4,761,798	08/1988	Griswold, Jr. <i>et al.</i>			
	AF60	5,982,315	11/1999	Bazarjani <i>et al.</i>			
	AG60	6,459,721 B1	10/2002	Mochizuki <i>et al.</i>			
	AH60	6,151,354	11/2000	Abbey			
	AI60	6,169,733 B1	01/2001	Lee			

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	AL						Yes No
	AM						Yes No

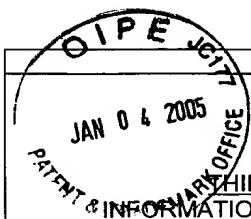
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	AA61	6,363,262 B1	03/2002	McNicol			
	AB61	6,697,603 B1	02/2004	Lovinggood <i>et al.</i>			
	AC61	5,282,222	01/1994	Fattouche <i>et al.</i>			
	AD61	5,949,827	09/1999	DeLuca <i>et al.</i>			
	AE61	6,014,176	01/2000	Nayebi <i>et al.</i>			
	AF61	5,678,226	10/1997	Li <i>et al.</i>			
	AG61	5,760,632	06/1998	Kawakami <i>et al.</i>			
	AH61	6,160,280	12/2000	Bonn <i>et al.</i>			
	AI61	5,481,570	01/1996	Winters			

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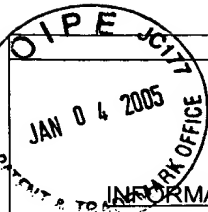
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	AA62	5,745,846	04/1998	Myer <i>et al.</i>			
	AB62	5,345,239	09/1994	Madni <i>et al.</i>			
	AC62	4,132,952	01/1979	Hongu <i>et al.</i>			
	AD62	5,260,973	11/1993	Watanabe			
	AE62	6,307,894 B2	10/2001	Eidson <i>et al.</i>			
	AF62	6,091,289	07/2000	Song <i>et al.</i>			
	AG62	6,437,639 B1	08/2002	Nguyen <i>et al.</i>			
	AH62	2002/0037706 A1	03/2002	Ichihara			
	AI62	4,441,080	04/1984	Saari			

FOREIGN PATENT DOCUMENTS

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	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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FORM PTO-1449

THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0630002APPLICATION NO.
09/632,857INVENTORS
SORRELLS *et al.*FILING DATE
August 4, 2000ART UNIT
2664

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA63	4,873,492	10/1989	Myer			
	AB63	5,697,074	12/1997	Makikallio <i>et al.</i>			
	AC63	5,784,689	07/1998	Kobayashi			
	AD63	6,335,656 B1	01/2002	Goldfarb <i>et al.</i>			
	AE63	6,690,232 B2	02/2004	Ueno <i>et al.</i>			
	AF63	4,250,458	02/1981	Richmond <i>et al.</i>			
	AG63	5,760,629	06/1998	Urabe <i>et al.</i>			
	AH63	6,084,465	07/2000	Dasgupta			
	AI63	6,204,789 B1	03/2001	Nagata			

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	AJ						Yes No
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	AL						Yes No
	AM						Yes No

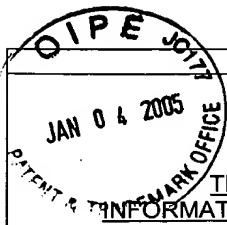
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	AA64	6,064,054	05/2000	Waczynski <i>et al.</i>			
	AB64	5,218,562	06/1993	Basehore <i>et al.</i>			
	AC64	5,239,496	08/1993	Vancraeynest			
	AD64	5,896,304	04/1999	Tiemann <i>et al.</i>			
	AE64	6,005,903	12/1999	Mendelovicz			
	AF64	5,834,979	11/1998	Yatsuka			
	AG64	6,798,351 B1	09/2004	Sorrells <i>et al.</i>			
	AH64	6,813,485 B2	11/2004	Sorrells <i>et al.</i>			
	AI64	5,410,270	04/1995	Rybicki <i>et al.</i>			

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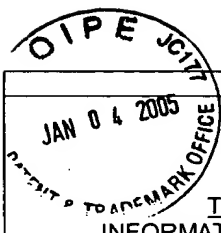
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	AA65	6,509,777 B2	01/2003	Razavi <i>et al.</i>			
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						

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